

General Risk Assessment

Form RA1

(Refer to Notes for Guidance before completing this form)

School Assessment No:	R(D)SVS/The Roslin Institute
Title of Activity:	Pet Detectives workshop
Location(s):	Easter Bush Science Outreach Centre, University of Edinburgh, Easter Bus, EH25 9RG.
Brief Description of Work:	
<p>A hands-on workshop, with simulated investigations into the mysterious and sudden illness of a young dog, for Primary pupils P5 upwards. Participants work in small groups on a series of interactive activities and are supervised at all times by staff and students from the University of Edinburgh and staff/adult helpers from their school.</p>	
Workshop Activities	
<p><i>Heart and Breathing Rate Investigation:</i> Pupils measure their own heart rate using stethoscopes and their breathing rate.</p> <p><i>Animal Blood Volumes Challenge:</i> Work in teams to work out how much blood various animals have.</p> <p><i>Blood Analysis:</i> Using food colouring and cooking oil, pupils are presented with what looks like blood that has been centrifuged. They analyse the blood samples and their volumes.</p> <p><i>Looking at Blood using Microscopes:</i> Pupils look real blood smears using microscopes.</p>	

Hazard Identification:

Hazard(s)	Present Risk Evaluation L/M/H	Control Measures (i.e. alternative work methods / mechanical aids / engineering controls etc.)	Risk Evaluation after control L/M/H
<i>Heart and Breathing Rate Investigation:</i> Asthma attack	L	No strenuous activity will be undertaken. All periods of activity are for 1 minute or less. Any child with asthma should have their inhaler with them and should stop at any time. Any child with asthma and no inhaler should not do this activity.	L
<i>Heart and Breathing Rate Investigation:</i> Physical injury i.e. falling, running into objects	L	Make sure exercise area is clear, use on-the-spot exercise e.g. star jumps where possible. Any moving around the room activity should be slow. Staff to ensure floor area is clear and dry. If area becomes wet, dry the area.	L

<i>Animal Blood Volumes Challenge:</i> Eye irritation if liquids are splashed into eyes	L	Solutions used are low hazard (water, food colouring, glycerol). All tubes of blood are sealed closed.	L
<i>Animal Blood Volumes Challenge:</i> Slips and trips from spilled liquids	L	Solutions used are low hazard (water, food colouring, glycerol). All tubes of blood are sealed closed. Any spills will be cleaned up immediately by a member of staff.	L
<i>Blood Analysis:</i> Eye irritation if liquids are splashed into eyes	L	Solutions used are low hazard (water, food colouring, glycerol and vegetable oil). No real blood is used. All tubes of blood are sealed closed.	
<i>Blood Analysis::</i> Slips and trips from spilled liquids	L	Solutions used are low hazard (water, food colouring, glycerol and vegetable oil). All tubes of blood are sealed closed. Nitrile gloves will be offered as part of the laboratory experience, although this is not a health and safety requirement. Any spills will be cleaned up immediately by a member of staff.	L
<i>Looking at Blood using Microscopes:</i> Sharps hazard if microscope slides are broken.	L	Microscope use will be supervised at all times. Spare slides will be kept out of reach of participants. All blood samples come from healthy animals. Only trained staff will touch the slides. Any broken slides will be cleared up immediately by staff and disposed of safely.	L
<i>Looking at Blood using Microscopes:</i> Crush injuries if microscopes pulled off benches.	L	Microscope use will be supervised at all times. Any leads/wires will be tidied away behind microscope to reduce the risk of them being pulled.	L

Engineering Controls: None required.

Guarding		Extraction (LEV)		Interlocks		Enclosure	
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Other relevant information (incl. testing frequency if appropriate):

Personal Protective Equipment (PPE):

Eye / Face		Hand /Arm	x	Feet / Legs		Respiratory	
Body (clothing)	x	Hearing		Other (Specify)			

Specify the grade(s) of PPE to be worn: Reusable lab coats. Disposable nitrile gloves.

Specify when during the activity the item(s) of PPE must be worn: Lab coats will be worn throughout the workshop, nitrile gloves will be worn during the mock blood analysis activity. Note that gloves are optional for this activity and not required for H&S reasons.

Non-disposable items of PPE must be inspected regularly and records retained for inspection


Persons at Risk:

Academic staff	x	Technical staff	x	P'Grad students	x	U'Grad students	
Maintenance staff		Office staff	x	Cleaning staff		Emergency personnel	
Contractors		Visitors	x	Others			

Additional Information: Identify any additional information relevant to the activity, including supervision, training requirements, special emergency procedures, requirement for health surveillance etc.

All workshop demonstrators will receive training, including H&S aspects, before running the activities for visiting groups.
Children taking part in the activities will be accompanied by a responsible adult at all times and school classes will be accompanied by a teacher/staff member from their school.

Assessment carried out by:

Name:	Jayne Quoiani	Date:	3 rd May 2018
Signature:		Review Date:	31 st Oct 2019